Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for June 6, 2014
Ed Kearns, Acting Chief

CDR	PI / TM	Assemble IPT	Perform Assessment	Deliver source code sample and README draft	Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	Provide feedback on Flow Diagram Draft	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Create Collection Level Metatdata	Conduct Security Review	Archive Code Package	Archive Docs	Archive Data	Make data publicly available	Put data, docs, and code on dev web page	Conduct ORR
1. AMSU-A FCDR (CH7 GPSRO)	Ho / Shi	x	x	x	22-Jul	28-Jun	22-Jul	x	4-Sep	x	26-Jul	11-Jul	26-Jul	x	9-Sep	23-Aug	5-Aug	27-Aug	5-Aug	13-Sep	10-Sep	11-Sep	27-Aug	17-Sep	17-Sep	17-Sep	20-Sep	24-Sep	7-Nov
2. Could Properties	Heidinger / Knapp	x	x	x	x	17-Mar	11-Jan	x	16-Jan	x	x	13-May	14-Jan	x	30-Jan	21-Apr	x	15-May	16-May	In Progress	5-Mar		x			In Progress			Jun 2014
3,4. Vegetation (Sfc Ref, NDVI)	Vermote / Matthews	x	17-Jan	22-May	2-Jul	26-Jul	7-May	22-May	6-Nov	29-May	9-Jul	22-Aug	6-Nov	30-Jun	8-Nov	1-Apr	1-Nov	19-Nov	5-Mar	24-Apr	12-Nov	14-May	6-Nov	15-May	6-May	7-May	15-May	16-May	21-May
5. MSU TCDR	Zou / Semunegus	x	IP 23-Dec	25-Feb	25-Feb	25-Feb	25-Feb	25-Feb	19-Mar	4-Mar	4-Mar	4-Mar	4-Mar	4-Mar	26-Mar	28-Mar	31-Mar	31-Mar	31-Mar	28-Mar	2-Apr		2-May	8-May	25-Apr	1-Apr			Jun 2014
6. OLR Daily	HT Lee / Shreck	x	x	1-Jun	6-Jan	1-Jun	11-Jan	30-Jan		2-Jun	10-Jan	4-May	14-Jan				15-Jan		15-Jan										Jul 2014
7,8,9. Ocean Surface (SST, Sfc Props, Heat Flux)	Clayson / Zhang	x	21-Feb	12-Dec	3-Apr	20-May	19-Feb	25-Nov	ATRAC	16-Dec		6-Jun			13-Dec														Jul 2014
10. Stratospheric (Ozone)	Rosenlof / Young	x	x	20-May		20-Mar		30-Oct 4-Apr	ATRAC			27-Mar		6-Jan															Jul 2014
11,12. Cryosphere (APP FCDR) (APP-x TCDR)	Key / Young	13-Jun	IP 20-Dec	3-Jun		20-Mar	12-Mar	12-Mar				25-Apr	20-Mar	25-Apr															Aug 2014
13. AVHRR FCDR (5 CHs, Cloud Properties)	Minnis / Young	x	22-Nov		14-Feb	31-Dec 28-Mar	7-Feb	14-Feb	20-Dec		21-Feb	13-Feb 2-Jun	14-Feb	18-Feb						14 TB June						60 TB			Aug 2014
14. Vegetation (LAI/FAPAR)	Vermote / Matthews	x	17-Jan	24-Jun	2-Jul	26-Jul	7-May		6-Nov	29-May	9-Jul	22-Aug				8-Nov	1-Nov												Sep 2014
15. Cloud/ Moisture Bundle (CTP, TPW)	Menzel / Young	x	31-Jan	1-Oct	5-Aug	15-May	5-Aug	21-Oct		29-Oct	29-Oct	29-Oct 10-Jan								NCDC creating									Sep 2014
16. CMORPH	Xie / Prat	x																											Oct 2014
17. Solar Irradiance (Oservational)	Pilewskie / Inamdar	x	6-Mar	22-Jan	26-Mar		26-Mar		ATRAC	9-May																			Nov 2014
18. Solar Irradiance (Composite)	Lean / Inamdar	x	6-Mar	22-Jan	26-Mar		26-Mar		ATRAC	9-May																			Nov 2014
19. ISCCP	Rossow / Knapp	x	17-Jan																										Dec 2014
20. NRT Sea Ice Concentration	Fetterer / Peng	x	PI says NO deliverables																										Dec 2014
21. Tropospheric Height	Ho / Shi	x	On Hold																										Dec 2014

7/14/2014

🟢 = On-track   🟡 = Potential management action required   🔴 = Management attention required

PREDECISIONAL DRAFT INFORMATION

					Assessment		Deliver Drafts							Review and Provide Feedback						Deliver Final Versions						Misc		Archive			Release		
	CDR	PI / TM	Status		Assemble IPT	Perform Assessment	Deliver source code sample and README draft	Deliver Flow Diagram Draft	Deliver C-ATBD Draft	Deliver Maturity Matrix Draft	Deliver Sample netCDF dataset	Deliver SA Draft	Provide feedback on source code and README	Provide feedback on Flow Diagram Draft	Provide feedback on C-ATBD Draft	Provide feedback on Maturity Matrix Draft	Provide feedback on Sample netCDF dataset	Provide feedback on SA Draft	Deliver final source code and README	Deliver final Flow Diagram	Deliver final C-ATBD	Deliver final Maturity Matrix	Deliver final netCDF dataset	Deliver final SA	Create Collection Level Metadata	Conduct Security Review	Archive Code Package	Archive Docs	Archive Data	Make data publicly available	Put data, docs, and code on dev web page	Conduct ORR

Status notes:

1) **Complete** — AMSU-A FCDR (CH7 GPSRO), Ho/Shi — 7-Nov

2) **Data transfer in progress (complete next week)** — Could Properties, Heidinger/Knapp — Jun 2014

3-4) **Complete** — Vegetation (Sfc Ref, NDVI), Vermote/Matthews — 21-May

5) All docs, code, and data are archived. **Started ORR checklist. Received QA procedure.** — MSU TCDR, Zou/Semunegus — Jun 2014

6) **Received C-ATBD and code, provided feedback on both, PI quickly made edits and resubmitted.** — OLR Daily, HT Lee/Shreck — Jul 2014

7-9) Decision made to transition just the SSMI portion, Dev SSMIS in FY15, then extend POR with SSMIS in FY16. **IPT next week** — Ocean Surface (SST, Sfc Props, Heat Flux), Clayson/Zhang — Jul 2014

10) **IPT next week** — Stratospheric (Ozone), Rosenlof/Young — Jul 2014

11-12) Reviewing TCDR C-ATBD; Feedback sent on metadata; **Received sample code package** — Cryosphere (APP FCDR)(APP-x TCDR), Key/Young — Aug 2014

13) 60TB dataset – Deliver in segments (first 14 TB in June?), **Waiting on transfer method decision; Reviewed C-ATBD** — AVHRR FCDR (5 CHs, Cloud Properties), Minnis/Young — Aug 2014

14) Now that Sfc Ref and NDVI are complete, will start working this too, **IPT next week** — Vegetation (LAI/FAPAR), Vermote/Matthews — Sep 2014

15) Opened ATRAC request to get the L1B PATMOS input data from UW — Cloud/Moisture Bundle (CTP, TPW), Menzel/Young — Sep 2014

16) Start work in FY14 – but low priority — CMORPH, Xie/Prat — Oct 2014

17) Received updated code package (headers look good, easy to run IDL script) — Solar Irradiance (Observational), Pilewskie/Inamdar — Nov 2014

18) POR 1882 to present for TSI and SSI (annual from 1615); received sample data, needs a lot of work. — Solar Irradiance (Composite), Lean/Inamdar — Nov 2014

19) Anand/Alisa/Bill found coding error; they were able to step through one month of processing — ISCCP, Rossow/Knapp — Dec 2014

20) CIRES money in place; PI says there are NO deliverables with a grant - will need to monitor closely — NRT Sea Ice Concentration, Fetterer/Peng — Dec 2014

21) Low Priority — Tropospheric Height, Ho/Shi — Dec 2014

CDRP Open Change Requests

Name of CDR	C-ATBD	Data Flow Diagram	Maturity Matrix	VDD	Source Code	NetCDF sample	Dataset	Request to Archive	Approved for Archive	SA	DSRR
AVHRR Reflectance - PATMOS-x	No change	√	No change	N/A	√ needs to be archived	√	Dataset is being archived, should finish next week	√	√	Mar-14	Mar-14
Geostationary IR Channel Brightness Temperature - GridSat B1	Needed, TBD	Needed, TBD	Needed, TBD	N/A	√	√	√	√	√	√	Aug-13
Sea Surface Temperature - Pathfinder	Feb-14	No change	No change	√	Mar-14	Provider needs to submit final sample	Needed, TBD	√	√	Needed TBD	Needed, TBD
Outgoing Longwave Radiation - Monthly	No change	No change	No change	N/A	√ needs to be archived	√	Waiting on SFTP	√	√	Waiting on SFTP	Waiting on SFTP
Mean Layer Temperature - UAH	Needed, TBD	Needed, TBD		Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD	Needed, TBD

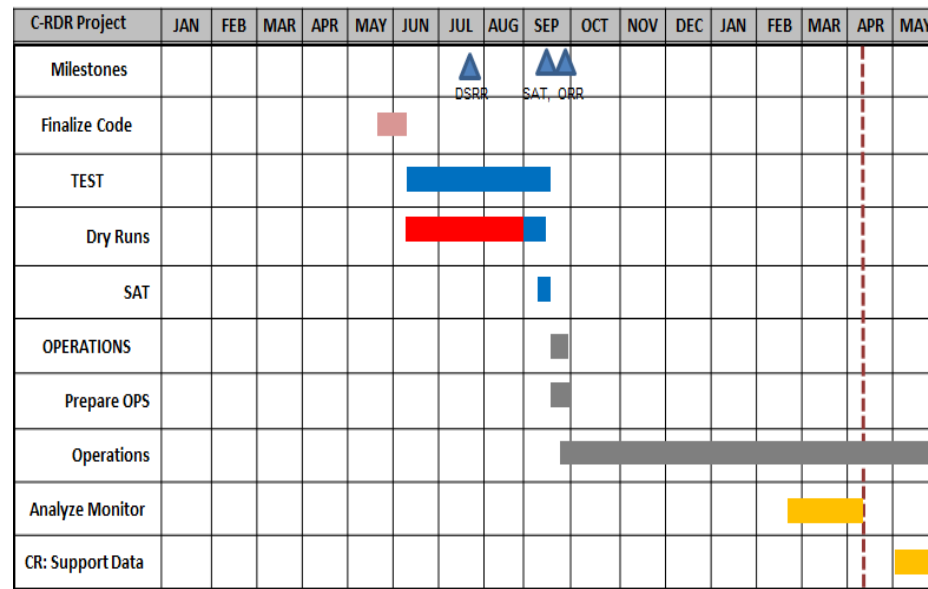## Weekly Report – June 6, 2014

VIIRS

(1) • Completed code for C-RDR.

System Infrastructure
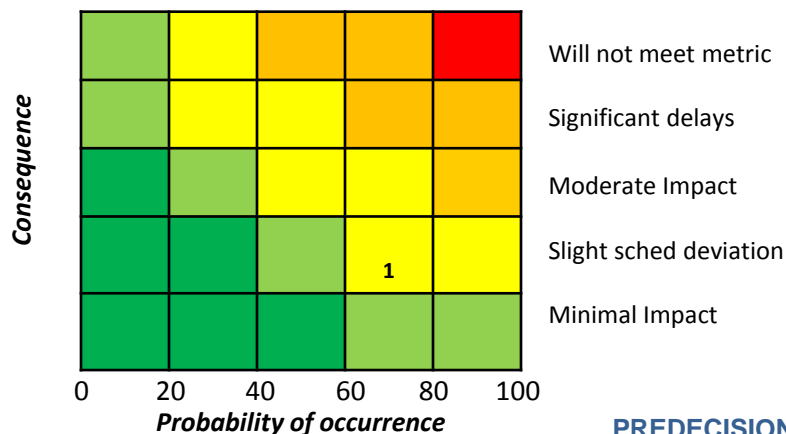
(2) • Integrating with the VIIRS C-RDR.

- **Determining best mechanism to release C-RDR software.**
- **Responding to C-RDR interest at the STAR JPSS science meeting.**
- C-RDR web page is up and running.
- Working to generate a current supporting data file.
- VIIRS C-RDRs are operational and accessible via HAS.
- Collection level metadata available on Climate.gov and DOI.org.
- Evaluating JPSS support data Change Requests and their effects.
- C-RDR is first product moving to three tier environment .
- Initial verification of SDR from C-RDR compared successfully.
- VIIRS Product Specification is ITAR approved.
- Will deliver initial version with ADL 3.1.

C-RDR Project	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
Milestones							▲ DSRR		▲▲ SAT, ORR								
Finalize Code					▮												
TEST						▬▬▬▬											
Dry Runs						▬▬▬▬											
SAT									▮								
OPERATIONS									▮								
Prepare OPS									▮								
Operations									▬▬▬▬▬▬▬▬▬▬▬▬▬								
Analyze Monitor															▮		
CR: Support Data																▮	

R2O PHASE: ANALYSIS DESIGN DEVELOPMENT INTEGRATION TEST OPERATIONAL

Risk Matrix

Consequence (y-axis, top to bottom): Will not meet metric, Significant delays, Moderate Impact, Slight sched deviation, Minimal Impact

Probability of occurrence (x-axis): 0 20 40 60 80 100

1 (plotted at approximately 70, Slight sched deviation)
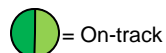
Risk and Mitigation

Forward processing of C-RDRs is ongoing operationally. Need to reprocess past C-RDRs and create Support Data files. Will assess this need as users request.

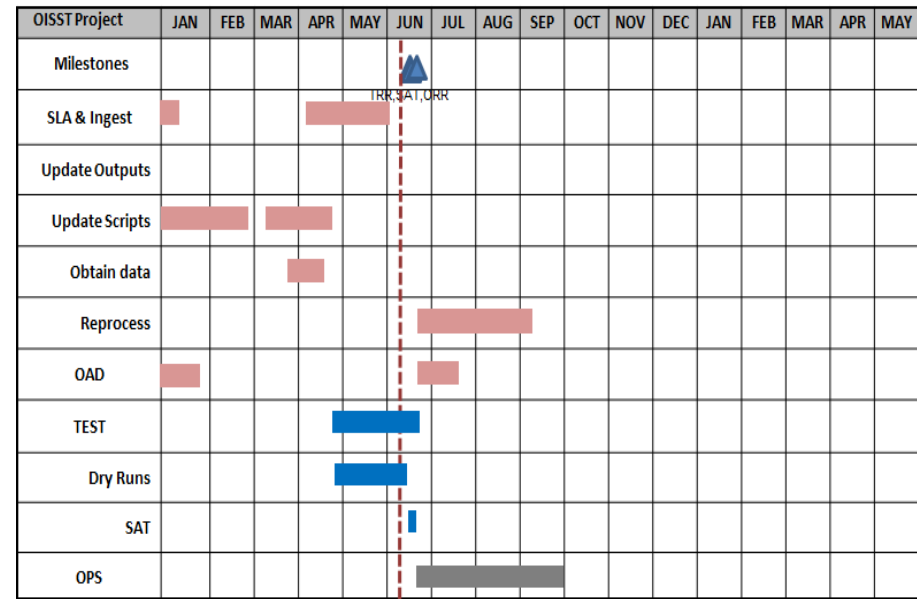◑ = On-track   ● = Potential management action required   ◑ = Management attention required

Weekly Report – June 6, 2014

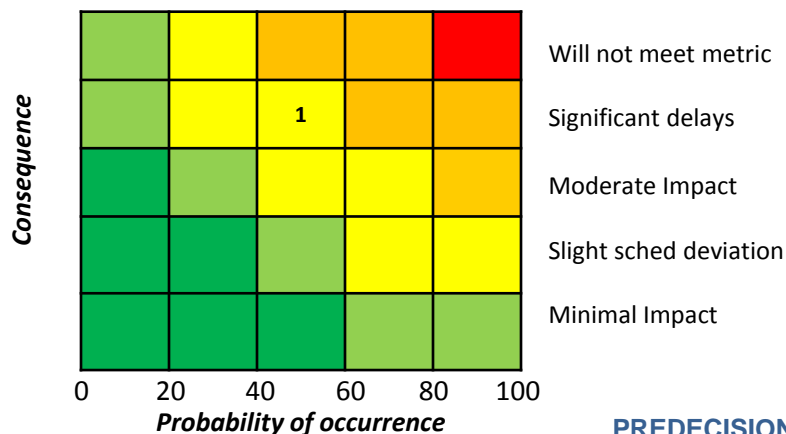**1 OISST – Optimum Interpolated Sea Surface Temperature**

- **Gathering test data for the SAT and dry runs.**
- **Completed GHRSST 2.0 output code updates.**
- **Working with ITB to establish 3 tier architecture.**
- **Need to re-baseline schedule (testing has slipped).**
- Successfully completed 30 day parallel test.
- Comparing NCDC GTS with NCEP ship/buoy data for use. GCAD is resolving issues but requires new operational code.
- AVHRR data for the 15 day delay product is available from CLASS.
- Running test data and code on Rainband for parallel test.
- GSTWG discussing inputs and production of preliminary OISST.
- Created a SOP for operational OISST.
- Completed refactoring of each component.
- Conducted Technology Assessment Review July 25.

Operations:

OISST Project schedule chart (Gantt) spanning JAN–MAY with rows: Milestones, SLA & Ingest, Update Outputs, Update Scripts, Obtain data, Reprocess, OAD, TEST, Dry Runs, SAT, OPS. R2O PHASE legend: ANALYSIS, DESIGN, DEVELOPMENT, INTEGRATION, TEST, OPERATIONAL.

Risk Matrix

Consequence (y-axis, top to bottom): Will not meet metric, Significant delays, Moderate Impact, Slight sched deviation, Minimal Impact. Risk "1" plotted at Significant delays / ~40-60 probability. Probability of occurrence (x-axis): 0 20 40 60 80 100
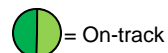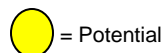
Risk and Mitigation

1 Time to progress through the three tier environment. ITB support is required.

PREDECISIONAL DRAFT INFORMATION

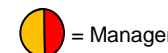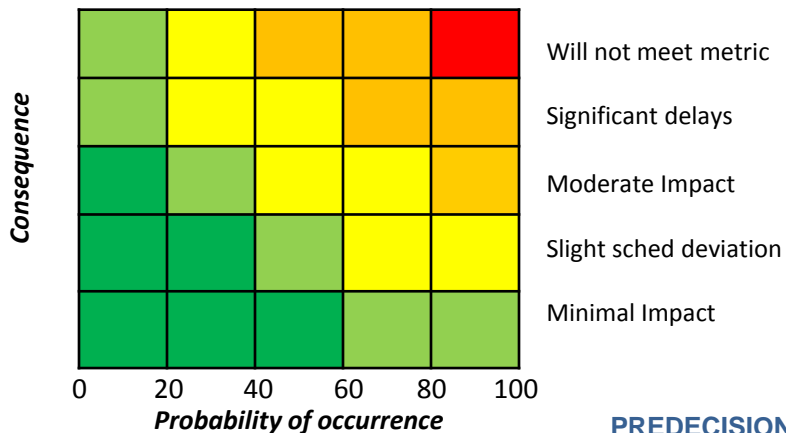= On-track   = Potential management action required   = Management attention required

Weekly Report – June 6, 2014

1 **Operations Monitoring Tool development**
- **Need to resolve resource questions to scope project.**
- **Monitoring of ingest and archive data streams.**
- **Monitoring of operational processing.**
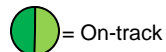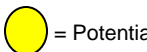- Created a Project Plan.

Risk Matrix

Consequence (y-axis)

- Will not meet metric
- Significant delays
- Moderate Impact
- Slight sched deviation
- Minimal Impact

Probability of occurrence (x-axis): 0 20 40 60 80 100

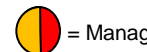## Risk and Mitigation

PREDECISIONAL DRAFT INFORMATION

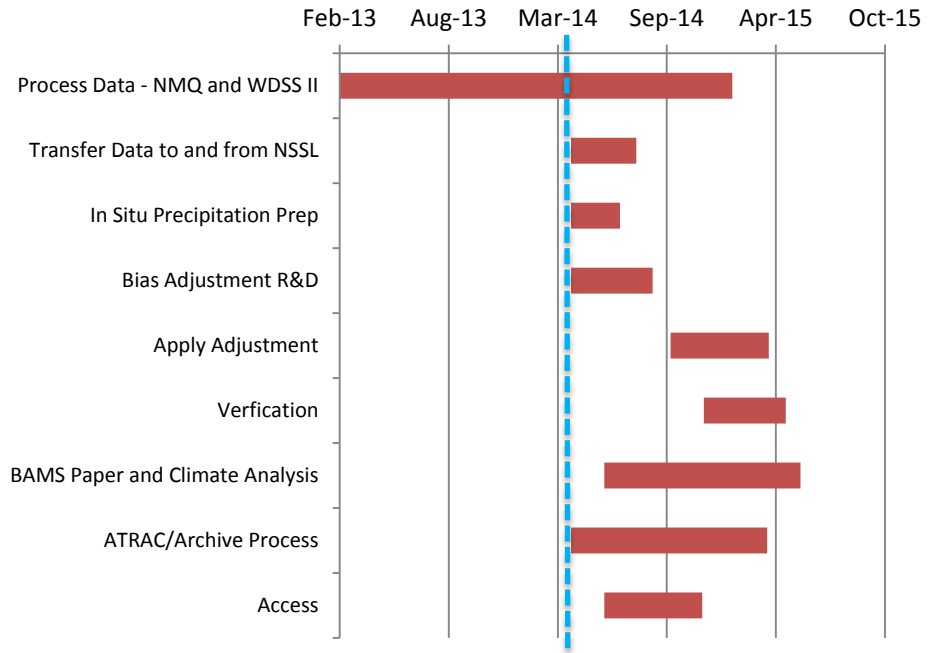= On-track   = Potential management action required   = Management attention required
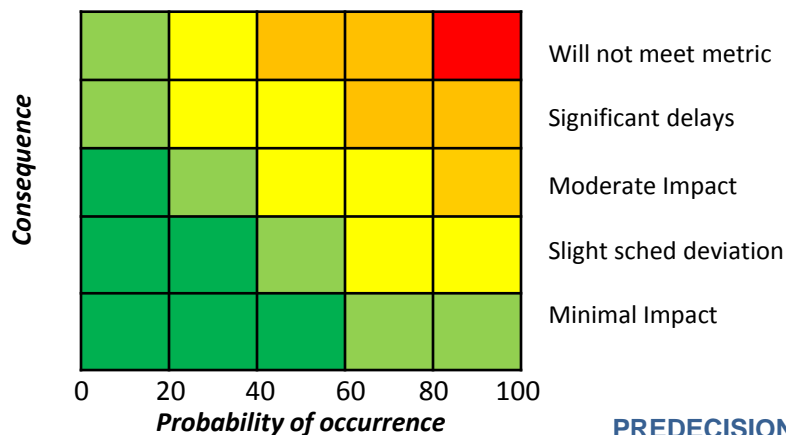
CDR Program Office
NOAA NEXRAD Reanalysis

Weekly Report – May 29, 2014

NNR – NOAA NEXRAD Reanalysis
- **2001 is processing**
- **Obtained 2002 data from NSSL**
- Obtain 2010 2008 2004 QPE data from NSSL
- Present Project Overview to Stewardship Council
- Process 2007 (Severe Weather and Hydro)
- Obtain 2001 data from NCDC archive
- Develop Bias Adjustment Plan
- Transfer GHCN-Daily, and HADS data to NSSL
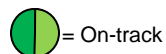- Present at Weather Radar Symposium
- Process 2006 2007 2009 2011 data

Gantt chart timeline (Feb-13, Aug-13, Mar-14, Sep-14, Apr-15, Oct-15):
- Process Data - NMQ and WDSS II
- Transfer Data to and from NSSL
- In Situ Precipitation Prep
- Bias Adjustment R&D
- Apply Adjustment
- Verfication
- BAMS Paper and Climate Analysis
- ATRAC/Archive Process
- Access

Risk Matrix

Consequence (bottom to top):
- Minimal Impact
- Slight sched deviation
- Moderate Impact
- Significant delays
- Will not meet metric

Probability of occurrence: 0, 20, 40, 60, 80, 100

Risk and Mitigation

No Risk at this time

7/14/2014